

#6 D.J. 7-25-02
IDS w/ files
Patent
Attorney's Docket No. 040071-530

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Ulf LINDGREN et al.

Application No.: 10/022,737

Filed: December 20, 2001

For: SPEECH BANDWIDTH EXTENSION

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)
) Group Art Unit: 2641

)
) Examiner: Unassigned

)
) Confirmation No.: 5626

SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

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Technology Center 2600

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

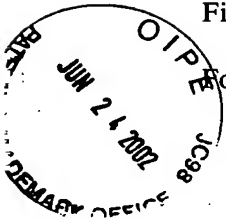
By: 

Kenneth B. Leffler
Registration No. 36,075

Date: June 24, 2002

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Ulf LINDGREN et al.) Group Art Unit: 2641
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Yoshida, Y. et al.: "An algorithm to reconstruct wideband speech from narrowband speech based on codebook mapping", Conf. Proc., ICSLP 94, pp. 1591-1594, Yokohama, Japan, 1994.

Epps, J. et al.: "Speech enhancement using STC-based bandwidth extension", Conf. Proc. ICSLP, 1998.

Makhoul, J. et al.: "High frequency regeneration in speech coding systems", Conf. Proc. ICASSP, pp. 428-431, Washington, USA, 1979.

Yasukawa, H.: "Quality enhancement of band limited speech by filtering and multirate techniques", Conf. Proc. ICSLP 94, pp. 1607-1610, Yokohama, Japan, 1994.

Voice Activity Detector (VAD) for Adaptive Multi-Rate (AMR) Speech Traffic Channels". GSM 06.94, Ver. 7.1.1, ETSI, 1998.

Hess, W.: "Pitch determination of speech signals". Springer-Verlag, 1983.

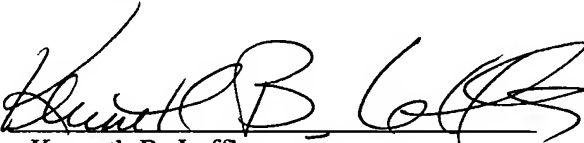
The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or statement is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By:



Kenneth B. Leffler
Registration No. 36,075

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

Date: June 24, 2001

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

ATTORNEY'S DKT NO.
040071-530

APPLICATION NO.
10/022,737

APPLICANT
Ulf LINDGREN et al.

FILING DATE
December 20, 2001

GROUP
2641

U.S. PATENT DOCUMENTS

| Examiner Initials | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication (MM-DD-YYYY) |
|----------------------|----------------------|-------------------------|--|-------------------------------------|
| | Number | Kind Code (if known) | | |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials | Foreign Patent Document | | Country | Date of Publication (MM-DD-YYYY) | Translation | |
|----------------------|-------------------------|-------------------------|---------|-------------------------------------|-------------|----|
| | Number | Kind Code (if known) | | | Yes | no |
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NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|-----------------------|---|
| | YOSHIDA, Y. et al.: "An algorithm to reconstruct wideband speech from narrowband speech based on codebook mapping", Conf. Proc., ICSLP 94, pp. 1591-1594, Yokohama, Japan, 1994. |
| | EPPS, J. et al.: "Speech enhancement using STC-based bandwidth extension", Conf. Proc. ICSLP, 1998. |
| | MAKHOUL, J. et al.: "High frequency regeneration in speech coding systems", Conf. Proc. ICASSP, pp. 428-431, Washington, USA, 1979. |
| | YASUKAWA, H.: "Quality enhancement of band limited speech by filtering and multirate techniques", Conf. Proc. ICSLP 94, pp. 1607-1610, Yokohama, Japan, 1994. |
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| | HESS, W.: "Pitch determination of speech signals". Springer-Verlag, 1983. |
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| Examiner Signature | Date Considered |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.